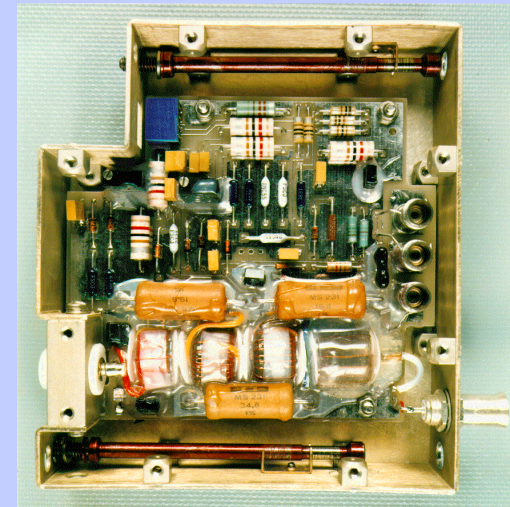
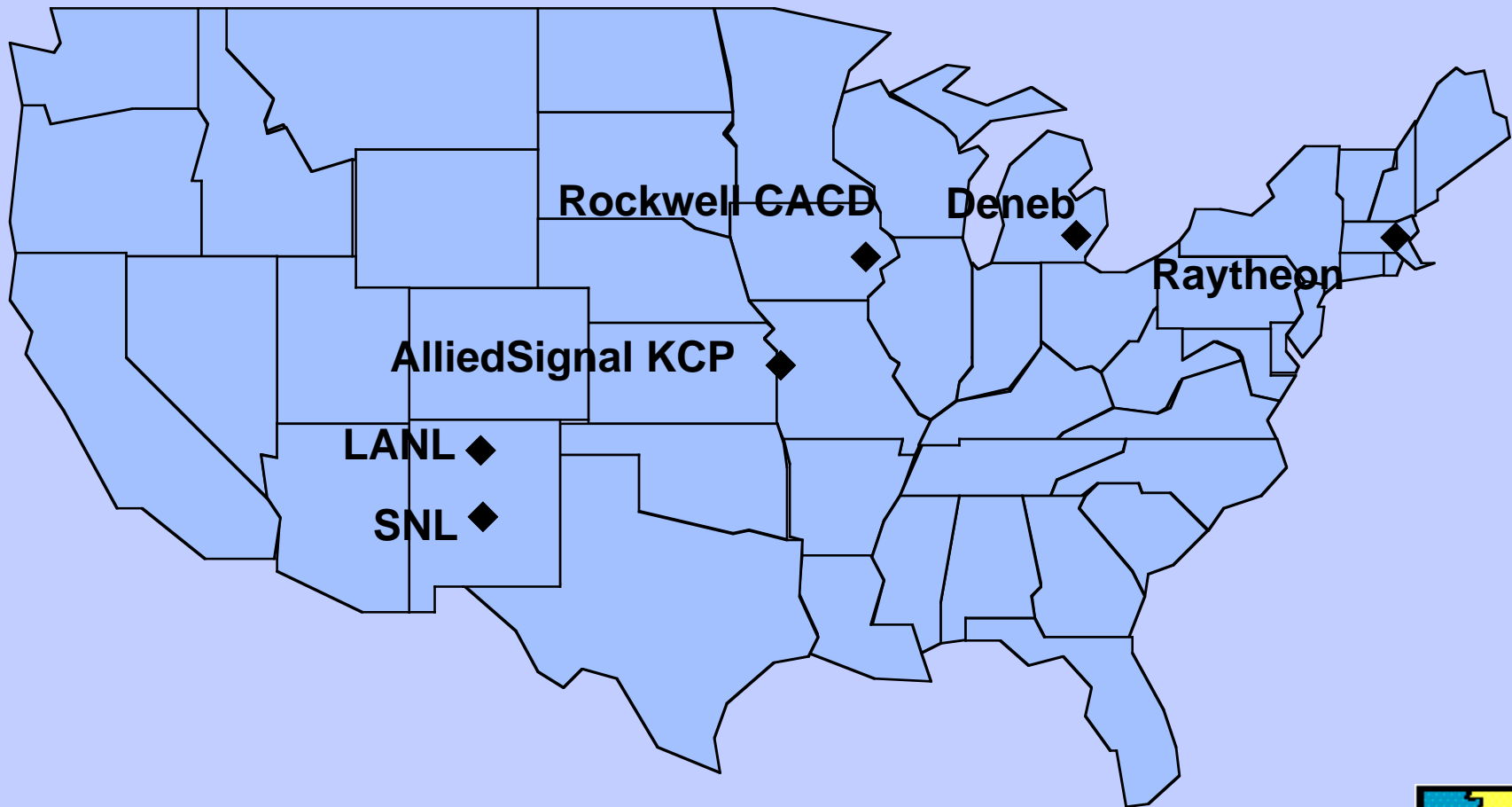


# Activities in Support of TEAM Partners

- Evaluated simulation capabilities and documented them
- Selected an industrial product
  - Discriminator
  - In production at Rockwell CACD
- Developed CAD model
  - Used Pro/Engineer
  - At AlliedSignal KCP
- Data was transferred across the Internet
- Assembly sequences were generated and simulated
  - Using Archimedes
  - At SNL



# **Distributed Enterprise *Assembly Simulation***



***Virtual Manufacturing Assembly Simulation***

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# Software Evaluated by TEAM Partners

- **Assembly Analysis**
  - Archimedes
  - BDI
  - Cost Advantage
- **Capacity Planning/Scheduling**
  - Autosched
- **Continuous Simulation**
  - Microwave Design System
  - Saber

# Software Evaluation (cont'd)

- **Discrete Event Simulation**
  - Arena
  - Automod
  - Crystaliz
  - Extend
  - Ithink
  - Modsim
  - QUEST
  - Pro/Mos
  - Witness
- **Kinematic/Dynamic Simulation**
  - CimStation
  - IGRIP
  - VirtualNC

# Current and Near-Term Activities

- Exploring costing models
- Develop linkages to Enterprise Modeling activities in Virtual Manufacturing to optimize the enterprise
- Develop and assemble a methodology and suite of tools to realize the Virtual Manufacturing vision
  - Explore additional software
  - Enhance data transfer between codes
  - Develop linkages to other thrust areas
  - Show enabling of early consideration of producibility and affordability
- Enhancing user interface with Archimedes based on partner's needs